

CAPITAL IMPROVEMENTS PROGRAM FY 2006

PROJECT TITLE:	Second Street Force Main	PROJECT NUMBER:	705
LOCATION:	From 2 nd Street Pumping Station to Bembe Beach Road in the vicinity of Awald Road	Committed/Spent as of	\$0
DEPARTMENT:	Public Works	04/01/05	
DIVISION:	Wastewater		

DESCRIPTION:

Replacement of the 71-year-old sewage force main running under Back Creek from the 2nd Street Pumping Station to its discharge point into the gravity sewer on Bembe Beach Road.

JUSTIFICATION:

Should failure occur, this replacement is critical in order to prevent a possible environmental incident in which 4,500,000 gallons of raw sewage could be discharged into the Chesapeake Bay each day if the old pipe line were to fail.

STATUS:

A design study has been completed, with the determination that there is no immediate need for replacement. Concept plans are complete and on file in the event of an emergency.

APPROPRIATION SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Land \$								0
Design				75,000				75,000
Construction				900,000				900,000
Inspection				90,000				90,000
Equipment								0
Other				200,000				200,000
Total \$	0	0	0	1,265,000	0	0	0	1,265,000

FUNDING SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Bond Funds \$				1,265,000				1,265,000
Operating Funds								0
Non City Funds								0
Total \$	0	0	0	1,265,000	0	0	0	1,265,000

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Some savings in the annual electrical expenses for the 2nd Street Pumping Station will occur due to the reduced pumping head of the new pipe.

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PROJECT TITLE:	Pump Station Replacements	PROJECT NUMBER:	706
LOCATION:	Whiten Court, Bywater Road, and Annapolis Roads Pumping Stations	Committed/Spent as of	\$52,690
DEPARTMENT:	Public Works	04/01/05	
DIVISION:	Wastewater		

DESCRIPTION:

Total replacement of existing sewage pumping stations with new concrete wet wells and submersible pumps, controlled by variable speed drives.

JUSTIFICATION:

All three stations are pre-fabricate "Tin Can" pumping stations that consist of an underground steel shell containing the pumps and controls to pump the wastewater collected from the neighborhood to the wastewater treatment plant on Edgewood Road. These stations are in excess of 30 years old and the steel containment vessel is at the end of it's design life.

STATUS:

Annapolis Roads pumping station is scheduled for construction in the Spring of 2005. Bywater pumping station scheduled for Fall 2005 with Whiton Court to follow.

APPROPRIATION SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Land \$								0
Design	70,000		36,000					106,000
Construction	700,000		360,000					1,060,000
Inspection	40,000		20,000					60,000
Equipment								0
Other	84,000		42,000					126,000
Total \$	894,000	0	458,000	0	0	0	0	1,352,000

FUNDING SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Bond Funds \$								0
Operating Funds	894,000		458,000					1,352,000
Non City Funds								0
Total \$	894,000	0	458,000	0	0	0	0	1,352,000

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Small reduction in operating and maintenance cost associated with more modern and efficient equipment.

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PROJECT TITLE:	Wastewater Pump Replacement Program	PROJECT NUMBER:	719
LOCATION:	Truxtun, Monterey, Porter, Bristol and Admiral Drive pumping stations.	Committed/Spent as of	\$0
DEPARTMENT:	Public Works	04/01/05	
DIVISION:	Wastewater		

DESCRIPTION:

Replacement of sewage pumps with new pumps utilizing variable speed controls.

JUSTIFICATION:

The named pumping station pumps are in need of repair and / or replacement. New pumps with variable speed drives result in longer pump life, reduced energy consumption and more constant flow in down stream pipes.

STATUS:

APPROPRIATION SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Land Acquisition								0
Design		30,000						30,000
Construction		250,000						250,000
Inspection		25,000						25,000
Equipment								0
Other		50,000						50,000
Total	\$ 0	355,000	0	0	0	0	0	355,000

FUNDING SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Bond Funds	\$							0
Operating Funds		355,000						355,000
Non City Funds								0
Total	\$ 0	355,000	0	0	0	0	0	355,000

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: Reduced energy consumption.

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PROJECT TITLE: Second Street Sewage Pumping Station	PROJECT NUMBER: 720
LOCATION: Second Street at Back Creek	Committed/Spent as of \$0
DEPARTMENT: Public Works	04/01/05
DIVISION: Wastewater	

DESCRIPTION:

Replace existing out dated and un-safe motor control center (MCC) at this ca.. 1934 facility.

JUSTIFICATION:

The existing equipment is out dated, replacement parts are difficult to secure and the equipment does not meet current national electrical code standards.

STATUS:

APPROPRIATION SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Land Acquisition\$								0
Design		10,000						10,000
Construction			60,000					60,000
Inspection			5,000					5,000
Equipment								0
Other			15,000					15,000
Total	\$ 0	10,000	80,000	0	0	0	0	90,000

FUNDING SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Bond Funds \$								0
Operating Funds		10,000	80,000					90,000
Non City Funds								0
Total	\$ 0	10,000	80,000	0	0	0	0	90,000

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET:

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PROJECT TITLE:	Sewer Rehabilitation	PROJECT NUMBER:	998
LOCATION:	City Wide	Committed/Spent as of	\$74,250
DEPARTMENT:	Public Works	04/01/05	
DIVISION:	Wastewater		

DESCRIPTION:

A major section of the City's sewer system was constructed in the 1930's and the larger pipe lines were constructed of concrete pipe. Over the past sixty-plus years, the concrete pipe has been deteriorated by the sewer gases and we recently had a 33" sewer line collapse. Due to location and development over and around these sewer lines, slip lining of the existing sewer is the most cost effective repair.

JUSTIFICATION:

TV inspection of approximately 9,000 feet of the suspect concrete pipe has shown varying degrees of pipe failure.

STATUS:

APPROPRIATION SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Land \$								0
Design	50,000		80,000	30,000				160,000
Construction	354,040		3,550,000	876,930				4,780,970
Inspection			50,000	50,000				100,000
Equipment								0
Other			225,000	78,070				303,070
Total \$	404,040	0	3,905,000	1,035,000	0	0	0	5,344,040

FUNDING SCHEDULE	PRIOR YEARS	CURRENT FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Bond Funds \$			3,905,000	1,035,000				4,940,000
Operating Funds	404,040							404,040
Non City Funds								0
Total \$	404,040	0	3,905,000	1,035,000	0	0	0	5,344,040

ESTIMATED FISCAL IMPACT ON OPERATING BUDGET: When completed, a reduction of inflow and infiltration should be noted and reflect in a reduction of flow at the WWTP.